

508^{XT} Specifications

Central Unit

SCI-508	
Functions	<ul style="list-style-type: none"> • Shooting system management • Aux channels recording • External GPS synchronisation • Network management
Operating voltage	110/220 VAC, 50/60Hz
Power consumption	10 W
Operating temperature	0°C to 45°C (32°F to 113°F)
Operations conditions	Altitude < 2000 meters
Dimensions (HxWxD)	2U 19" rackable, 88.9 x 482.6 x 400 mm (3.5 x 19 x 15.7 in.)
Weight	4kg (8.82lbs)

Ground Equipment

FDU-508	
Functions	<ul style="list-style-type: none"> • Data filtering, compression & time stamping • Data transmission with CRC control • 24 bits A/D conversion • Instrument tests : noise, gain, phase, distortion • sensor tests : resistance, tilt, leakage, noise
Sample rate	4, 2, 1, 0.5ms
Time standard	Synchronous to GPS clock
Input impedance differential mode	20kΩ // 77nF
Full scale	1.6V RMS (0dB), 400mV RMS (12dB)
Noise (3-200Hz)	450nV RMS (0dB), 145nV RMS (12dB)
Instant dynamic range	130dB
System dynamic range	140dB
Distortion	-110dB
Gain accuracy	< 0.1%
Phase accuracy	< 20μs
Low cut filter	Selectable : (None, 0.15625 Hz, 0.3125 Hz, 0.625 Hz, 1.25 Hz, 2.5 Hz)
High cut filter	0.8FN linear or minimum phase
Internal between FDU	Up to 70m
Power consumption	105mW
Weight	0.470kg / 1.04lbs
Dimension (HxWxD)	86.2 x 76 x 248 mm (3.4x3.0x9.7 in.)
Operating temperature	-40°C to 70°C (-40°F to 158°F)
Operations conditions	For onshore operations / Waterproof down to 5 m

DSU1-508

Functions	<ul style="list-style-type: none">• Data filtering, compression & time stamping• Data transmission with CRC control• Acceleration measurement• Instrument tests : gain, phase, distortion• Sensor tests : noise, distortion, tilt
Sample rate	4, 2, 1, 0.5ms
Time standard	Synchronous to GPS clock
Bandwidth	0-800Hz
Full scale	5m/s ²
Noise (10-200Hz)	15ng/√Hz
System dynamic range	128dB
Distortion	-90dB
Gain accuracy	< 0.25%
Phase accuracy	< 20μs
Power consumption	85mW
Weight	0.485kg / 1.07lbs
Dimension (HxWxD) (with spike)	176.8 x 76.4 x 248mm (6.9x3.0x9.7 in.)
Operating temperature	-40°C to 70°C (-40°F to 158°F)
Operations conditions	For onshore operations / Waterproof down to 5m

CX-508

Functions	<ul style="list-style-type: none">• Supply clock and power to connected FDU/DSU• Store data locally (32 GB memory)• Transmit data to CU via network with error recovery
Operating voltage	10.5 - 15V DC
Line data rate	10 - 20 - 40Mbps
Maximum number of channels per line	2,400 @2ms real-time
Transverse data rate	1Gbps
Maximum number of channels per transverse	100,000 @2ms real-time
Power consumption	<ul style="list-style-type: none">• Line only : 3W in acquisition, 1W in standby• With transverse : 7W in acquisition, 2W in standby
Weight	3.8kg / 8.38lbs
Dimension (HxWxD)	158 x 218 x 342.4mm (6.2x8.6x13.5 in.)
Operating temperature	-40°C to 70°C (-40°F to 158°F)
Operations conditions	Waterproof 15m

Channel capacity between CX-508

Distance between RPs	FDU-508	DSU1-508
13.75m /45ft	96	106
27.5m /90ft	80	92
55m /180ft	64	74
70m /230ft	60	68

Cable

	Transverse cable (fiber optic)	Land cable
Operation type	Onshore	Onshore
Maximum length	2km	-
Weight	45kg/km	43kg/km
Breaking strength bulk cable	200 daN	150 daN
Breaking strength with connectors	170 daN	120 daN
waterproofness	15m	5m

Note: Sercel reserves the right to change its specifications without prior notice.
All specifications are typical at 25°C

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Ahead of the CurveSM